

## 102.1 Aluminum Base Alloys (chip and disk forms)

These SRMs are intended for analyses of aluminum alloys by chemical and instrumental methods. SRMs 1710 through 1715 are specially prepared to include low levels of cadmium and lead encountered in the analysis of recycled aluminum. SRM 2426 is a hot-dip coating alloy for sheet steel applications.

Technical Contact: john.sieber@nist.gov

PLEASE NOTE: The tables are presented to facilitate comparisons among a family of materials to help customers select the best SRM for their needs. For specific values and uncertainties, the certificate is the only official source.

Nominal Elemental Composition (mass fractions are given in %, unless noted by an asterisk* for mg/kg)																		
		Unit Size																
SRM	Type	(in g)																
		Mg	Si	Mn	Cu	Zn	Ti	Cr	Fe	Ni	Sn	Pb	Be	V	Ga	Sr	Zr	Cd
87a	Si-Al Alloy	75	0.37	6.24	0.26	0.30	0.16	0.18	0.11	0.61	0.57	0.057	0.093		0.020			
853a	Alloy 3004	40	1.092	0.1810	1.251	1504	0.0514	0.0205	0.504		0.00429	(0.0003)		0.01842	0.0176		(0.0023)	
854a	Alloy 5182	40	4.474	0.1553	0.3753	0.0494	0.0505	0.0335	0.0340	0.1990	0.0195			0.0174	(0.0185)	(0.0002)		(0.0006)
855a	Alloy 356	30	0.37	7.07	0.060	0.13	0.085	0.15	0.013	0.14	0.016	0.010	0.019	(0.012)		0.018	(0.003)	Ca (0.001)
856a	Alloy 380	30	0.063	9.21	0.35	3.50	0.96	0.065	0.060	0.85	0.37	0.10	0.11	(0.014)		0.018	(0.003)	Ca (0.002)
858	Alloy 6011	35	1.01	0.79	0.48	0.84	1.04	0.042	0.0011	0.078	0.0006			0.0030				
859	Alloy 7075	35	2.45	0.17	0.078	1.59	5.46	0.041	0.176	0.202	0.063			0.0026	0.0082			
1240c	Alloy 3004	disk	1.110	0.1804	1.268	0.1484	0.0514	0.0218	(0.00054)	0.501	0.00434	(0.0004)	(0.0009)	(0.000011)	0.01850	0.0181	(0.0023)	(0.00065)
1241c	Alloy 5182	disk	4.498	0.1544	0.3792	0.0497	0.0506	0.0317	0.0343	0.1997	0.0198	(0.0002)	(0.0005)		0.0184	(0.0002)	(0.002)	(0.0006)
1255b	Alloy 356	disk	0.3822	7.298	0.0527	0.1161	0.0842	0.1477	(0.0150)	0.1170	0.0179	0.1334	0.0182		0.0316	0.0175	0.0164	
1256b	Alloy 380	disk		9.362	0.3857	3.478	1.011	0.0877	0.0572	0.865	0.4135	(0.0091)	0.1075		0.0212	(0.0183)	0.0188	
1258-l	Alloy 6011	disk	1.00	0.80	0.481	0.848	1.03	(0.040)	(0.0011)	0.080	(0.0006)				(0.011)			
1259	Alloy 7075	disk	2.48	0.18	0.079	1.60	5.44	(0.04)	0.173	0.205	0.063			0.0025		(0.022)		
1710	Alloy 3004	disk										0.00177					0.000843	
1711	Alloy 3004	disk										0.00639					0.002090	
1712	Alloy 3004	disk										0.01559					0.0005165	
1713	Alloy 5182	disk										0.001712					0.000878	
1714	Alloy 5182	disk										0.00653					0.002013	
1715	Alloy 5182	disk										0.01509					0.00502	
2426	55% Al-Zn Al	40	1.925		38.92			0.454			Al 58.18						0.00502	

\*See current certificate of analysis for exact assigned values and estimates of uncertainty. Values in parentheses denote either reference or information values.